

**Notice of Allowability**

Application No.

10/065,356

Applicant(s)

MIREMADI, REZA

Examiner

M. R. Sedighian

Art Unit

2633

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/08/02.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

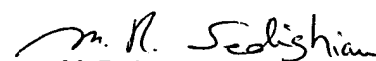
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 11/20/02, 11/25/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
**M. R. SEDIGHIAN**  
PRIMARY EXAMINER

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen Holmes on 3/14/06.

In The Specification

2. The phrase "Dara Bar" in line 8 of paragraph 0018 of page 4, has been changed to --- Data Bar ---.

In The Claims

3. a) In claim 11, the phrase "said first data output" in line 2, has been changed to --- said data output ---.
- b) In claim 15, the word "have" in line 4, has been changed to --- having ---.
- c) In claim 15, the phrase "and said cathode to a fourth of said contact leads" in line 14, has been changed to --- to said fourth contact lead ---.
- d) In claim 21, the phrase "data bar" in line 2, has been changed to --- data ---.
- e) In claim 22, the phrase "data bar" in line 2, has been changed to --- data ---.
- f) In claim 23, the phrase "data bar" in lines 3 and 4, has been changed to --- data ---.
- g) In claim 24, the phrase "data bar" in line 2, has been changed to --- data ---.
- h) In claim 25, the phrase "data bar" in lines 2 and 3, has been changed to --- data ---.

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4. The following is an examiner's statement of reasons for allowance:

As to claims 1-32, the prior art of Seetharaman, Mohandas, and Nagahori do not fairly teach or suggest an optical receiver that is comprised of a transimpedance amplifier having a voltage supply, a ground, an analog input, a data output providing a data output signal, and a bar output providing a data bar output signal, and a photo detecting element having a first terminal coupled to the analog input of the transimpedance amplifier and a second terminal providing a RPM output signal, wherein the data bar output being coupled to the second terminal of the photodiode and the data bar output signal and the RPM output signal are superimposed, and wherein a current sense circuit is coupled to the superimposed RPM and data bar output signals and configured to extract the RPM data signal from the superimposed RPM and data bar output signals to provide a RPM output signal, and a filter coupled to the superimposed RPM and data bar output signals and configured to block the RPM signal from the superimposed data bar and RPM signals to provide a data bar output signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Seetharaman et al. (US Patent No: 6,864,749) is cited to show a transimpedance amplifier (302, fig. 3) that receives an input signal (304, fig. 3) from a photodiode (306, fig. 3) which is

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responsive to an optical data signal (col. 4, lines 17-25) and provides a differential output at output terminals (312, 314, fig. 4).

Mohandas et al. (US Patent No: 6,768,384) is cited to show a high speed differential amplifier (401, fig. 4) having two inputs and two outputs (col. 1, lines 35-45), wherein a photodiodes (415, fig. 4) is coupled to have a DC reverse bias between VCC and input node (col. 1, lines 42-44).


Nagahori et al. (US Patent No: 6,181,454) is cited to show a differential amplifier (12, fig. 3) that produces a pair of voltage signals of true and complementary logic levels (col. 3, lines 14-30).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. R. Sedighian whose telephone number is (571) 272-3034.

The examiner can normally be reached on M-F (from 9 AM to 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
M. R. SEDIGHIAN  
PRIMARY EXAMINER